

## BEST AVAILABLE COPY

Sheet 1 of 1

<p style="text-align: center;">MAY 11 2005 U.S. PATENT AND TRADEMARK OFFICE OF INFORMATION PROVIDED BY APPLICANT (Use several sheets if necessary)</p>			ATTY. DOCKET NO. TH1647 07 (US)		APPLICATION NUMBER 10/817,640			
			APPLICANT C. L. Edwards et al.					
			FILING DATE April 2, 2004		GROUP ART UNIT			
REFERENCE DESIGNATION								
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date If Appropriate	
lw	AA	3,875,202	4/1/75	Steckler	260	458		
lw	AB	4,814,514	3/21/89	Yokota et al.	568	608		
lw	AC	4,885,379	12/5/89	Abend	558	34		
	AD							
	AE							
	AF							
	AG							
	AH							
	AI							
FOREIGN PATENT DOCUMENTS								
		Document No.	Date	Country	Class	Subclass	Translation Yes      No	
lw	AL	JP 10237497	9/8/98	Japan (English Abstract)	C11D	7/54		X
lw	AM	JP 03261779	11/21/91	Japan (English Abstract)	C07D	309/24		X
lw	AN	JP 06073045	3/15/94	Japan (English Abstract)	C07D	323/00		X
	AO							
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)								
	AR							
	AS							
	AT							
EXAMINER			DATE CONSIDERED					
lw			Nov 2005					

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
2. This is not a representation that a search has been made.

FORM PTO-1449 (Modified)			ATTY. DOCKET NO. TH1647 07 (US)	APPLICATION NUMBER			
LIST OF INFORMATION PROVIDED BY APPLICANT (Use several sheets if necessary)			APPLICANT C. L. Edwards et al.				
			FILING DATE	GROUP ART UNIT			
REFERENCE DESIGNATION			U.S. PATENT DOCUMENTS				
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date If Appropriate
AD	AA	3,676,523	7/11/72	Mason	260	683.15D	
	AB	3,686,351	8/22/72	Mason	260	683.15D	
	AC	3,737,475	6/5/73	Mason	260	683.15D	
	AD	3,825,615	7/23/74	Lutz	260	683.15D	
	AE	4,020,121	4/26/77	Kister et al.	260	683.15D	
	AF	4,021,447	5/3/77	Rubin et al.	260	326.8	
	AG	3,702,886	11/14/72	Argauer et al.	423	328	
	AH	3,709,979	1/9/73	Chu	423	328	
AD	AI	3,832,449	8/27/74	Rubin et al.			
FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Subclass	Translation Yes No
AD	AL	WO 94/05761	3/17/94	World	C11D	3/10	
	AM	1,429,143	3/24/76	Great Britain	C11D	10/02	
	AN	WO 99/42553	8/26/99	World	C11D	3/43	
AD	AO	0,884,298 A2	12/16/98	Europe	C07C	43/10	X
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
AD	AR	Myers, Drew, "Surfactant Science and Technology," pp. 82-85, VCH Publishers, Inc. (New York, NY, USA) 1988 (ISBN 0-89573-399-0)					
AD	AS	K. Shinoda, "Principles of Solution and Solubility," translation in collaboration with Paul Becher, published by Marcel Dekker, Inc. 1978, pp. 292-304					
AD	AT	Reid, V.W., G.F. Longman and E. Heinerth, "Determination of Anionic-Active Detergents by Two-Phase Titration," <u>Tensile</u> 4, 1967, pp. 292-304					
EXAMINER			DATE CONSIDERED Nov 2005				

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<b>REFERENCE DESIGNATION</b>				<b>U.S. PATENT DOCUMENTS</b>			
Examiner Initial		Document Number	Date	Patentee	Class	Subclass	Filing Date If Appropriate
11	BA	4,482,531	11/13/84	Kuehl	423	329	
11	BB	3,950,496	4/13/76	Ciric	423	328	
	BC	3,972,983	8/3/76	Ciric	423	328	
	BD	4,046,859	9/6/77	Plank et al.	423	328	
	BE	4,247,416	1/27/81	Doherty et al.	252	428	
	BF	4,086,186	4/25/78	Rubin et al.	252	430	
	BG	4,046,859	9/6/77	Plank et al.	423	328	
11	BH	4,287,166	9/1/81	Dwyer et al.	423	325	
11	BI	4,247,728	1/27/81	Rubin et al.	585	467	
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
11	BL	06073045	3/15/94	Japan	C07D	273/08	X
11	BM	03261779	11/21/91	Japan	C07D	309/24	X
11	BN	JP 11-349507	12/21/99	Japan	C07C	43/11	X
11	BO	100 20 899 A1	10/25/01	Germany	C07D	493/04	X
<b>OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)</b>							
11	BR	B. E. Gordon, H. Roddewig and W. T. Shebs, "A Double Label Radiotracer Approach to Detergency Studies," Journal of American Oil Chemists' Society, Vol. 44, No. 5 (1967) pp. 289-294					
11	BS	W. T. Shebs and B. E. Gordon, "Improvements in Detergency Precision With Radioactive Soil," Journal of American Oil Chemists' Society, Vol. 45, No. 5 (1968) pp. 377-380					
11	BT	W. T. Shebs, "Radioisotope Techniques in Detergency," Chapter 3, <u>Detergency Theory and Technology</u> , Marcel Dekker, Inc., New York (1987) pp. 125-191					
EXAMINER				DATE CONSIDERED Nov 2003			

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			APPLICANT C. L. Edwards et al.				
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<b>REFERENCE DESIGNATION</b> Examiner Initial			<b>U.S. PATENT DOCUMENTS</b>				
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date If Appropriate
4	CA	4,495,303	1/22/85	Kuehl	502	62	
A	CB	4,397,827	8/9/83	Chu	423	326	
	CC	4,640,829	2/3/87	Rubin	423	328	
	CD	4,568,654	2/4/86	Valyocsik	502	62	
	CE	4,698,217	10/6/87	Valyocsik	423	328C	
	CF	4,647,442	3/3/87	Derouane et al.	423	306	
	CG	4,619,818	10/28/86	Derogane et al.	423	306	
4	CH	4,954,325	9/4/90	Rubin et al.	423	328	
A	CI	5,236,575	8/17/93	Bennett et al.	208	46	
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document No.	Date	Country	Class	Subclass	Translation Yes No
	CL						
	CM						
	CN						
	CO						
<b>OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)</b>							
	CR	Roger Hunter et al., "Allylation Using Allylborates," TETRAHEDRON, Vol. 50, No. 3, 1994, pp. 871-888					
	CS	Birgit Bartels et al., "A Selectivity of Activated Ketal Reduction With Borane Dimethyl Sulfide," JOURNAL OF ORGANIC CHEMISTRY, Vol. 58, No. 24, 1993, pp. 6756-6765					
	CT	T. Hosokawa et al., "Palladium (II)-Catalyzed Acetalization of Terminal Olefins Bearing Electron-Withdrawing Substituents With Optically Active Diols," JOURNAL OF ORGANIC CHEMISTRY, Vol. 52, 1987, pp. 1958-1764					
EXAMINER			DATE CONSIDERED Nov 2015				

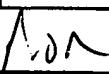
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Examiner Initial		Document Number	Date	Patentee	Class	Subclass	Filing Date If Appropriate
AN	DA	3,308,069	3/7/67	Wadlinger et al.	252	455	
AN	DB	Re. 28,341	2/18/75	Wadlinger, et al.	208	120	
	DC	3,058,805	10/16/62	Weber	23	113	
	DD	3,130,007	4/21/64	Breck	23	113	
	DE	3,996,337	12/7/76	Stabenow et al.	423	328	
	DF	4,440,871	4/3/84	Lok et al.	502	214	
	DG	5,059,567	10/22/91	Linsten et al.	502	64	
	DH	3,462,525	8/19/69	Levinsky	424	56	
	DI	3,428,654	2/18/69	Rubinfeld et al.	260	327	
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Date	Country	Class	Subclass	Translation Yes      No
	DL						
	DM						
	DN						
	DO						
<b>OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)</b>							
AN	DR	F. Wang et al., Synlett, (1998) pp. 245-245					
AN	DS	A. A. Volkov et al., Dokl. Chem. 283, (1985), pp. 246-248					
AN	DT	International Search Report of 5 July 2002					
EXAMINER AN				DATE CONSIDERED Nov 2005			

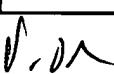
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Examiner Initial		Document Number	Date	Patentee	Class	Subclass	Filing Date If Appropriate
AJ	EA	3,420,875	1/7/69	Di Salvo et al.	260	513	
AK	EB	3,506,580	4/14/70	Rubinfeld et al.	252	138	
	EC	3,579,537	5/18/71	Rubinfeld et al.	260	327	
	ED	3,524,864	8/18/70	Rubinfeld et al.	260	327	
	EE	5,057,627	10/15/91	Edwards	568	618	
	EF	6,087,311	7/11/00	Van Dijk	510	294	
	EG	6,083,893	7/4/00	Zint et al.	510	221	
J	EH	6,159,920	12/12/00	Ridyard	510	324	
PA	EI	6,153,574	11/28/00	Janssen	510	224	
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Date	Country	Class	Subclass	Translation Yes      No
	EL						
	EM						
	EN						
	EO						
<b>OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)</b>							
	ER	Anionic Surfactants, Volume 7, Part I, edited by Warner M. Linfield, 1976 by Marcel Dekker, Inc.					
	ES						
	ET						
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FM	FA	2,778,855	1/22/57	Shokal et al.	260	613		
	FB	4,503,275	3/5/85	Harris et al.	568	866		
	FC	4,317,938	3/2/82	Lutz	568	619		
	FD	4,721,816	1/26/88	Edwards	568	618		
	FE	4,721,817	1/26/88	Edwards	518	618		
	FF	2,808,442	10/1/57	Smith et al.	260	611		
	FG	5,912,408	6/15/99	Trinh et al.	8	142		
ly	FH	4,544,512	10/1985	Hozumi et al.	558	169		
PA	FI	Ser. No. 10/025,080	12/19/01	Edwards et al.				
<b>FOREIGN PATENT DOCUMENTS</b>								
		Document No.	Date	Country	Class	Subclass	Translation Yes      No	
	FL							
	FM							
	FN							
	FO							
<b>OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)</b>								
	FR							
	FS							
	FT							
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